



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

APPARATUS FOR ELECTRO CHEMICAL DEPOSITION OF  
COPPER METALLIZATION WITH THE CAPABILITY OF IN-  
SITU THERMAL ANNEALING

Application Number: 10/686486



Confirmation Number: 8014

First Named Applicant: ROBIN CHEUNG

Attorney Docket Number: AMAT3421C2

Art Unit: 1753

Search string: ( 3649509 or 3727620 or 3770598 or 4027686  
or 4092176 or 4110176 or 4113492 or 4315059  
or 4326940 or 4336114 or 4376685 or 4405416  
or 4428815 or 4435266 or 4489740 or 4510176  
or 4518678 or 4519846 or 4568431 or 4693805  
or 4732785 or 4789445 or 4816098 or 4816638  
or 5039381 or 5055425 or 5069760 or 5092975  
or 5100516 or 5155336 or 5162260 or 5222310  
or 5224504 or 5230743 or 20010030101 or  
20020000271 or 20020022363 or 20020029961  
or 20020037641 or 20020074233 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Cite.No. | Patent No. | Date       | Patentee                  | Kind | Class | Subclass |
|------|----------|------------|------------|---------------------------|------|-------|----------|
| 1    | 1        | 3649509    | 1972-03-14 | MORAWETZ, ET AL.          |      |       |          |
| 2    | 2        | 3727620    | 1973-04-17 | ORR                       |      |       |          |
| 3    | 3        | 3770598    | 1973-11-06 | CREUTZ                    |      |       |          |
| 4    | 4        | 4027686    | 1977-06-07 | SHORTES, ET AL.           |      |       |          |
| 5    | 5        | 4092176    | 1978-05-30 | KOZAI, ET AL.             |      |       |          |
| 6    | 6        | 4110176    | 1978-08-29 | CREUTZ, ET AL. (DECEASED) |      |       |          |
| 7    | 7        | 4113492    | 1978-09-12 | SATO, ET AL.              |      |       |          |
| 8    | 8        | 4315059    | 1982-02-09 | RAISTRICK, ET AL.         |      |       |          |
| 9    | 9        | 4326940    | 1982-04-27 | ECKLES, ET AL.            |      |       |          |
| 10   | 10       | 4336114    | 1982-06-22 | MAYER, ET AL.             |      |       |          |



|    |         |            |                   |
|----|---------|------------|-------------------|
| 11 | 4376685 | 1983-03-15 | WATSON            |
| 12 | 4405416 | 1983-09-20 | RAISTRICK, ET AL. |
| 13 | 4428815 | 1984-01-31 | POWELL, ET AL.    |
| 14 | 4435266 | 1984-03-06 | JOHNSTON          |
| 15 | 4489740 | 1984-12-25 | RATTAN, ET AL.    |
| 16 | 4510176 | 1985-04-09 | CUTHBERT, ET AL.  |
| 17 | 4518678 | 1985-05-21 | ALLEN             |
| 18 | 4519846 | 1985-05-28 | AIGO              |
| 19 | 4568431 | 1986-02-04 | POLAN, ET AL.     |
| 20 | 4693805 | 1987-09-15 | QUAZI             |
| 21 | 4732785 | 1988-09-15 | QUAZI             |
| 22 | 4789445 | 1988-12-06 | GOFFMAN, ET AL.   |
| 23 | 4816098 | 1989-03-28 | DAVIS, ET AL.     |
| 24 | 4816638 | 1989-03-28 | UKAI, ET AL.      |
| 25 | 5039381 | 1991-08-13 | MULLARKEY         |
| 26 | 5055425 | 1991-10-08 | LEIBOVITZ, ET AL. |
| 27 | 5069760 | 1991-12-03 | TSUKAMOTO, ET AL. |
| 28 | 5092975 | 1992-03-03 | YAMAMURA, ET AL.  |
| 29 | 5100516 | 1992-03-30 | NISHIMURA, ET AL. |
| 30 | 5155336 | 1992-10-13 | GRONET, ET AL.    |
| 31 | 5162260 | 1992-11-10 | LEIBOVITZ, ET AL. |
| 32 | 5222310 | 1993-06-29 | THOMPSON, ET AL.  |
| 33 | 5224504 | 1993-07-06 | THOMPSON, ET AL.  |
| 34 | 5230743 | 1993-07-27 | THOMPSON, ET AL.  |

## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

| init | Cite.No. | Pub. No.    | Date       | Applicant        | Kind | Class | Subclass |
|------|----------|-------------|------------|------------------|------|-------|----------|
| 11   | 1        | 20010030101 | 2001-10-18 | BERNER, ET AL.   |      |       |          |
| 1    | 2        | 20020000271 | 2002-01-03 | RITZDORF, ET AL. |      |       |          |
| 1    | 3        | 20020022363 | 2002-02-21 | RITZDORF, ET AL. |      |       |          |
| 1    | 4        | 20020029961 | 2002-03-14 | DORDI, ET AL.    |      |       |          |
| 1    | 5        | 20020037641 | 2002-03-28 | RITZDORF, ET AL. |      |       |          |
| 11   | 6        | 20020074233 | 2002-06-20 | RITZDORF, ET AL. |      |       |          |



Signature

| Examiner Name             | Date          |
|---------------------------|---------------|
| <i>Harry S. Will, Jr.</i> | <i>1/5/04</i> |



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First Named Applicant: ROBIN CHEUNG

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Art Unit: 1753

Search string: ( 2026605 or 4265943 or 4786337 or 5156731  
or 5384284 or 5510216 or 5846598 or 5885749  
or 5891513 or 5907790 or 5913147 or 5994675  
or 6017777 or 6030208 or 6037257 or 6171922  
or 6174388 or 6207937 or 6211495 or 6222164  
or 6242349 or 6258223 or 6290833 or 6296906  
or 6483081 or 6544338 or 5431700 or 6072163  
or 6307184 or 6423947 or 6529686 or 6639189  
or 20020004301 or 20020102837 or  
20030045095 ).pn.

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| init | Cite.No. | Patent No. | Date       | Patentee          | Kind | Class | Subclass |
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| HW   | 1        | 2026605    | 1936-01-07 | ANTISELL          |      |       |          |
| /    | 2        | 4265943    | 1981-05-05 | GOLDSTEIN, ET AL. |      |       |          |
| /    | 3        | 4786337    | 1988-11-22 | MARTIN            |      |       |          |
| /    | 4        | 5156731    | 1992-10-20 | OGASAWARA, ET AL. |      |       |          |
| /    | 5        | 5384284    | 1995-01-24 | DOAN, ET AL.      |      |       |          |
| /    | 6        | 5510216    | 1996-04-23 | CALABRESE, ET AL. |      |       |          |
| /    | 7        | 5846598    | 1998-12-08 | SEMKOW, ET AL.    |      |       |          |
| /    | 8        | 5885749    | 1999-03-23 | HUGGINS, ET AL.   |      |       |          |
| /    | 9        | 5891513    | 1999-04-06 | DUBIN, ET AL.     |      |       |          |
| /    | 10       | 5907790    | 1999-05-25 | KELLAM            |      |       |          |
| /    | 11       | 5913147    | 1999-06-15 | DUBIN, ET AL.     |      |       |          |



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| 14 | 6030208 | 2000-02-29 | WILLIAMS, ET AL.   |
| 15 | 6037257 | 2000-03-14 | CHIANG, ET AL.     |
| 16 | 6171922 | 2001-01-09 | MAGHSOUDNIA        |
| 17 | 6174388 | 2001-01-16 | SIKKA, ET AL.      |
| 18 | 6207937 | 2001-03-27 | STODDARD, ET AL.   |
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| 20 | 6222164 | 2001-04-24 | STODDARD, ET AL.   |
| 21 | 6242349 | 2001-06-05 | NOGAMI, ET AL.     |
| 22 | 6258223 | 2001-07-10 | CHEUNG, ET AL.     |
| 23 | 6290833 | 2001-09-18 | CHEN               |
| 24 | 6296906 | 2001-10-02 | STIMMELL, ET AL.   |
| 25 | 6483081 | 2002-11-19 | BATCHELDER         |
| 26 | 6544338 | 2003-04-08 | BATCHELDER, ET AL. |
| 27 | 5431700 | 1995-07-11 | SLOAN              |
| 28 | 6072163 | 2000-06-06 | ARMSTRONG, ET AL.  |
| 29 | 6307184 | 2001-10-23 | WOMACK, ET AL.     |
| 30 | 6423947 | 2002-07-23 | WOMACK, ET AL.     |
| 31 | 6529686 | 2003-03-04 | RAMANAN, ET AL.    |
| 32 | 6639189 | 2003-10-28 | RAMANAN, ET AL.    |

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| init | Cite.No. | Pub. No.    | Date       | Applicant        | Kind | Class | Subclass |
|------|----------|-------------|------------|------------------|------|-------|----------|
| W    | 1        | 20020004301 | 2002-01-10 | CHEN, ET AL.     |      |       |          |
| W    | 2        | 20020102837 | 2002-08-01 | RITZDORF, ET AL. |      |       |          |
| W    | 3        | 20030045095 | 2003-03-06 | RITZDORF, ET AL. |      |       |          |

Signature

| Examiner Name | Date   |
|---------------|--------|
| Harry D. Will | 1/5/06 |



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Search string: ( 5252807 or 5256274 or 5259407 or 5290361  
or 5292393 or 5316974 or 5324684 or 5328589  
or 5349978 or 5368711 or 5377425 or 5377708  
or 5415890 or 5429733 or 5442235 or 5447615  
or 5449447 or 5516412 or 5527739 or 5608943  
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or 5884009 or 6015749 or 6071388 or 6093291  
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or 6290933 or 6294059 or 6309520 or  
6508920 ).pn.

### US Patent Documents

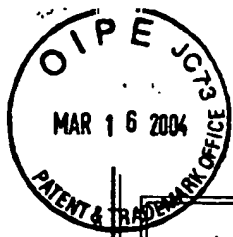
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Cite.No. | Patent No. | Date       | Patentee          | Kind | Class | Subclass |
|------|----------|------------|------------|-------------------|------|-------|----------|
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| 1    | 2        | 5256274    | 1993-10-26 | PORIS             |      |       |          |
|      | 3        | 5259407    | 1993-11-09 | TUCHIDA, ET AL.   |      |       |          |
|      | 4        | 5290361    | 1994-03-01 | HAYASHIDA, ET AL. |      |       |          |
|      | 5        | 5292393    | 1994-03-08 | MAYDAN, ET AL.    |      |       |          |
|      | 6        | 5316974    | 1994-05-31 | CRANK             |      |       |          |
|      | 7        | 5324684    | 1994-06-28 | KERMANI, ET AL.   |      |       |          |
|      | 8        | 5328589    | 1994-07-12 | MARTIN            |      |       |          |
| HL   | 9        | 5349978    | 1994-09-27 | SAGO, ET AL.      |      |       |          |



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| 11 | 5377425 | 1995-01-03 | KAWAKAMI, ET AL.   |
| 12 | 5377708 | 1995-01-03 | BERGMAN, ET AL.    |
| 13 | 5415890 | 1995-05-16 | KLOIDER, ET AL.    |
| 14 | 5429733 | 1995-07-04 | ISHIDA             |
| 15 | 5442235 | 1995-08-15 | PARRILLO, ET AL.   |
| 16 | 5447615 | 1995-09-05 | ISHIDA             |
| 17 | 5449447 | 1995-09-12 | BRANDERS           |
| 18 | 5516412 | 1996-05-14 | ANDRICACOS, ET AL. |
| 19 | 5527739 | 1996-06-18 | PARRILLO, ET AL.   |
| 20 | 5608943 | 1997-03-11 | KONISHI, ET AL.    |
| 21 | 5625170 | 1997-04-29 | PORIS              |
| 22 | 5651865 | 1997-07-29 | SELLERS            |
| 23 | 5677244 | 1997-10-14 | VENKATRAMAN        |
| 24 | 5705223 | 1998-01-06 | BUNKOFSKE          |
| 25 | 5716207 | 1998-02-10 | MICHINA, ET AL.    |
| 26 | 5718813 | 1998-02-17 | DRUMMOND, ET AL.   |
| 27 | 5723028 | 1998-03-03 | PORIS              |
| 28 | 5820692 | 1998-10-13 | BAECKER, ET AL.    |
| 29 | 5884009 | 1999-03-16 | OKASE              |
| 30 | 6015749 | 2000-01-18 | LIU, ET AL.        |
| 31 | 6071388 | 2000-06-06 | UZOH               |
| 32 | 6093291 | 2000-07-25 | IZUMI, ET AL.      |
| 33 | 6136163 | 2000-10-24 | CHEUNG, ET AL.     |
| 34 | 6187152 | 2001-02-13 | TING, ET AL.       |
| 35 | 6203582 | 2001-03-20 | BERNER, ET AL.     |
| 36 | 6207005 | 2001-03-27 | HENLEY, ET AL.     |
| 37 | 6258220 | 2001-07-10 | DORDI, ET AL.      |
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| 39 | 6276072 | 2001-08-21 | MORAD, ET AL.      |
| 40 | 6290865 | 2001-09-18 | LLOYD, ET AL.      |
| 41 | 6290933 | 2001-09-18 | DURGA, ET AL.      |
| 42 | 6294059 | 2001-09-25 | HONGO, ET AL.      |
| 43 | 6309520 | 2001-10-30 | WOODRUFF, ET AL.   |
| 44 | 6508920 | 2003-01-21 | RITZDORF, ET AL.   |

Signature



| Examiner Name          | Date   |
|------------------------|--------|
| Harry D. Williams, III | 1/5/06 |



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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

|                        |                          |
|------------------------|--------------------------|
| Application Number     | 10/686,486               |
| Filing Date            | OCT. 15, 2003            |
| First Named Inventor   | CHEUNG, ET AL.           |
| Group Art Unit         | 1753                     |
| Examiner Name          | UNKNOWN                  |
| Attorney Docket Number | AMAT/3421.C2/CMP/ECP/RKK |
| Submission Date        | APRIL 23, 2004           |

## **U.S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                    | A1                    | US-                                      |                                |  |   |
|                    | A2                    | US-                                      |                                |  |   |
|                    | A3                    | US-                                      |                                |  |   |
|                    | A4                    | US-                                      |                                |  |   |
|                    | A5                    | US-                                      |                                |  |   |
|                    | A6                    | US-                                      |                                |  |   |
|                    | A7                    | US-                                      |                                |  |   |
|                    | A8                    | US-                                      |                                |  |   |
|                    | A9                    | US-                                      |                                |  |   |

## **FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or<br>Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |   |                |
| HW                 | B1                    | EP 0 421 735 A2   | 04/10/1991                     | KABUSHIKI KAISHA TOSHIBA                           |   |                |
|                    | B2                    | EP 0 881 673 A2   | 12/02/1998                     | INTERNATIONAL BUSINESS<br>MACHINES CORPORATION     |   |                |
|                    | B3                    | EP 1 037 263 A2   | 09/20/2000                     | APPLIED MATERIALS, INC.                            |   |                |
|                    | B4                    | EP 1 085 557 A2   | 03/21/2001                     | APPLIED MATERIALS, INC.                            |   |                |
|                    | B5                    | JP 4-131395   | 05/06/1992                     |  |   |                |
|                    | B6                    | JP 4-280993   | 10/06/1992                     |  |   |                |
|                    | B7                    | JP 54-148112 W/ENG. ABSTRACT  | 11/20/1979                     | NAKAGAWA KK  |   |                |
|                    | B8                    | JP 58-182823 W/ENG. ABSTRACT  | 10/25/1983                     | NIPPON DENKI KK                                    |   |                |
|                    | B9                    | JP 6-17291 W/ENG. ABSTRACT  | 01/25/1994                     | NEC CORP   |   |                |
|                    | B10                   | JP 63-118093  | 05/23/1988                     | TANAKA ELECTRON INC                                |   |                |
|                    | B11                   | WO 97/12079   | 04/03/1997                     | INTEL CORPORATION                                  |   |                |
| HW                 | B12                   | WO 99/40615   | 08/12/1999                     | SEMITOOL, INC.                                     |   |                |
|                    | B13                   |   |                                |  |   |                |

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2

of 2

Application Number

10/686,486

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First Named Inventor

CHEUNG, ET AL.

Group Art Unit

1753

Examiner Name

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Attorney Docket Number

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Submission Date

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## **NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>2</sup> |
|--------------------|-----------------------|--|----------------|
| HLW                |                       | COLOMBO, Wafer Back Surface Film Removal, Central R&D, SGS-Thomson Microelectronics, Agrate, Italy, Spin Tech Technology, 6 pages.   |                |
|                    |                       | Semitool Products/Sales from <a href="http://www.Semitool.com">www.Semitool.com</a> Metallization and Interconnect, October 27, 1998, 4 pages.   |                |
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|                    |                       |  |                |
|                    |                       |  |                |

Examiner

*Harry S. White, III*

Date Considered

1/5/06

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